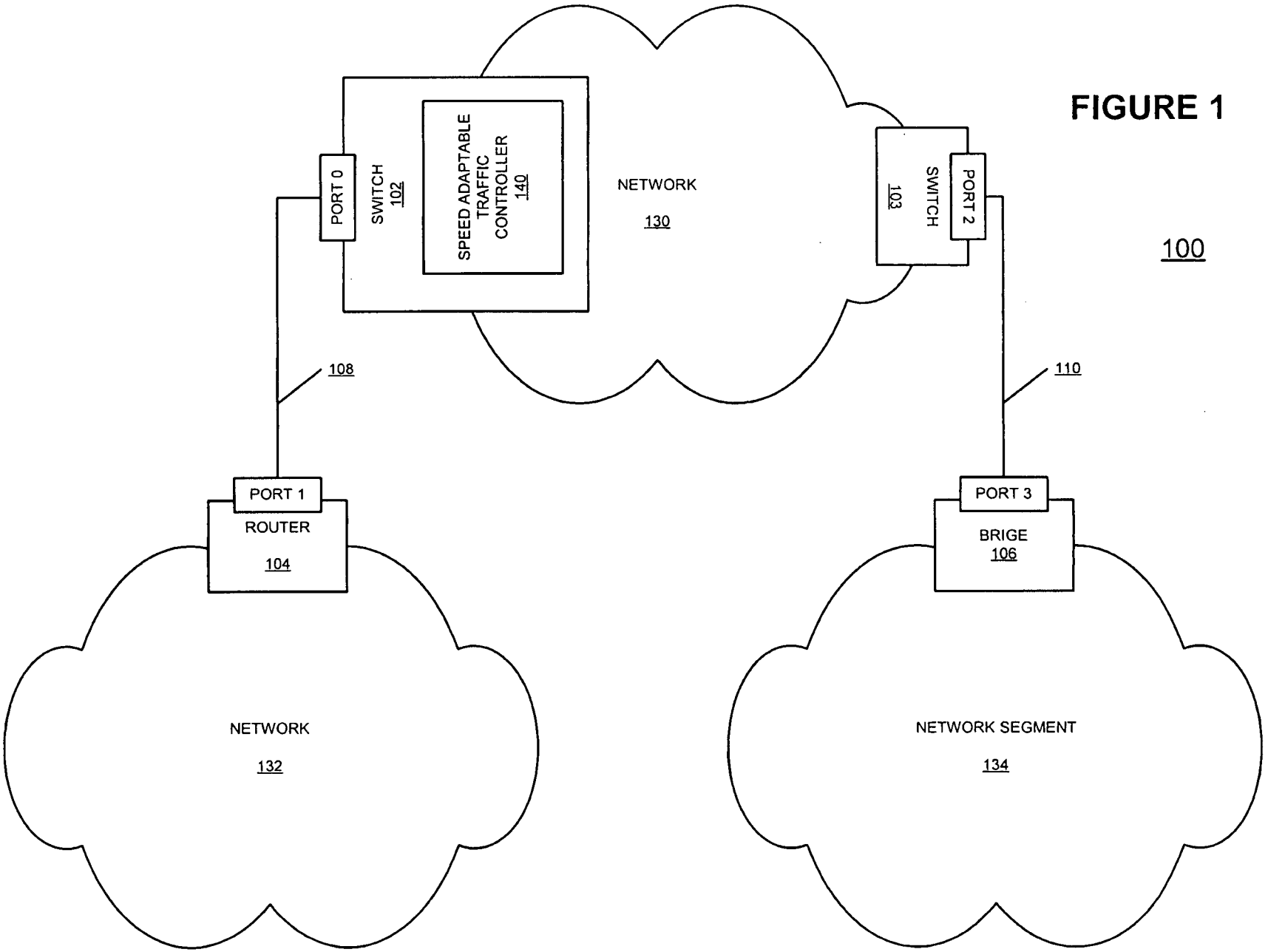

PORT 0
SWITCH
102
SPEED ADAPTABLE
TRAFFIC
CONTROLLER
140
NETWORK
130
SWITCH
103
PORT 2
100
108
110
PORT 1
ROUTER
104
PORT 3
BRIGE
106
NETWORK
132
NETWORK SEGMENT
134

FIGURE 1

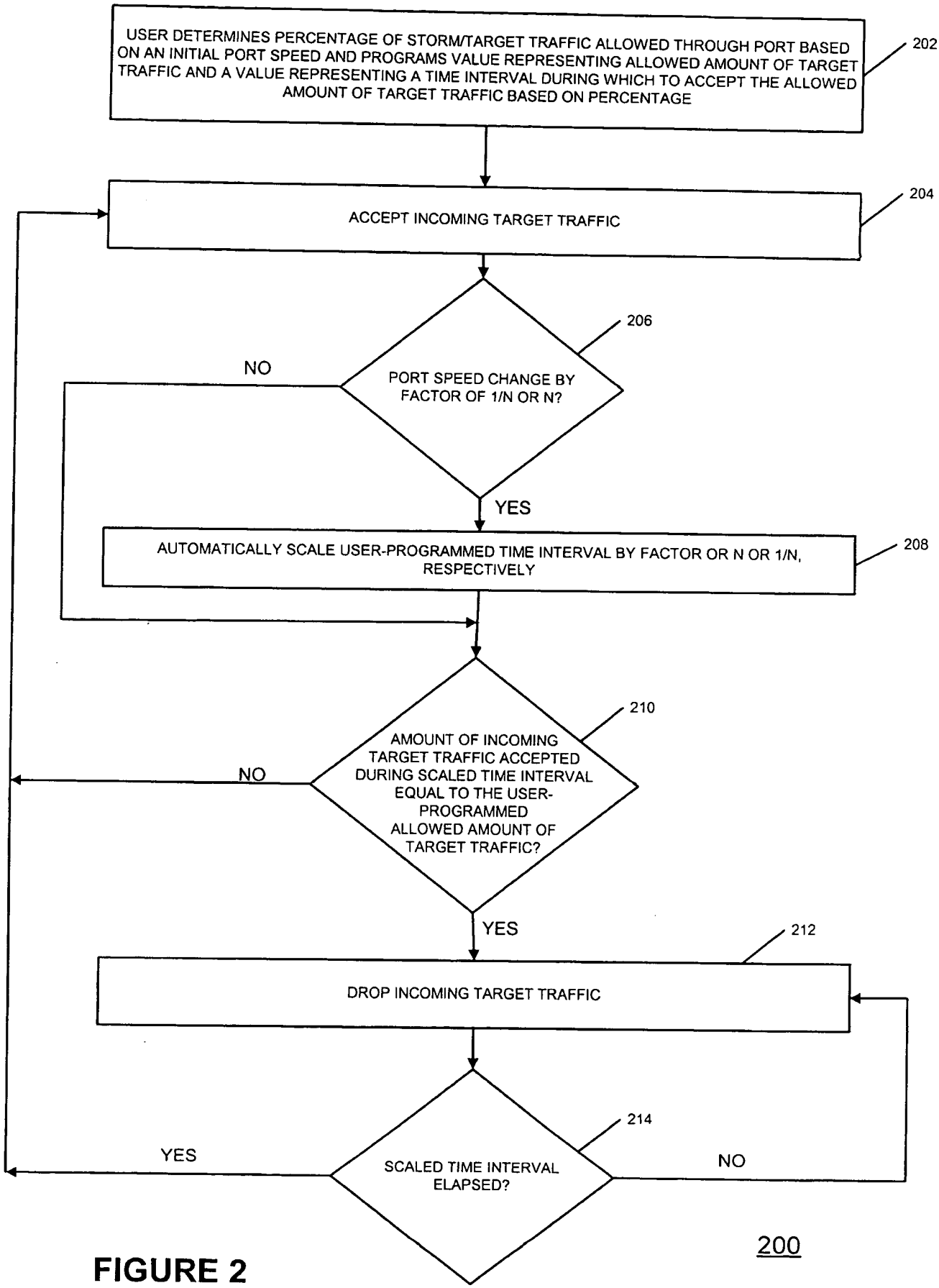
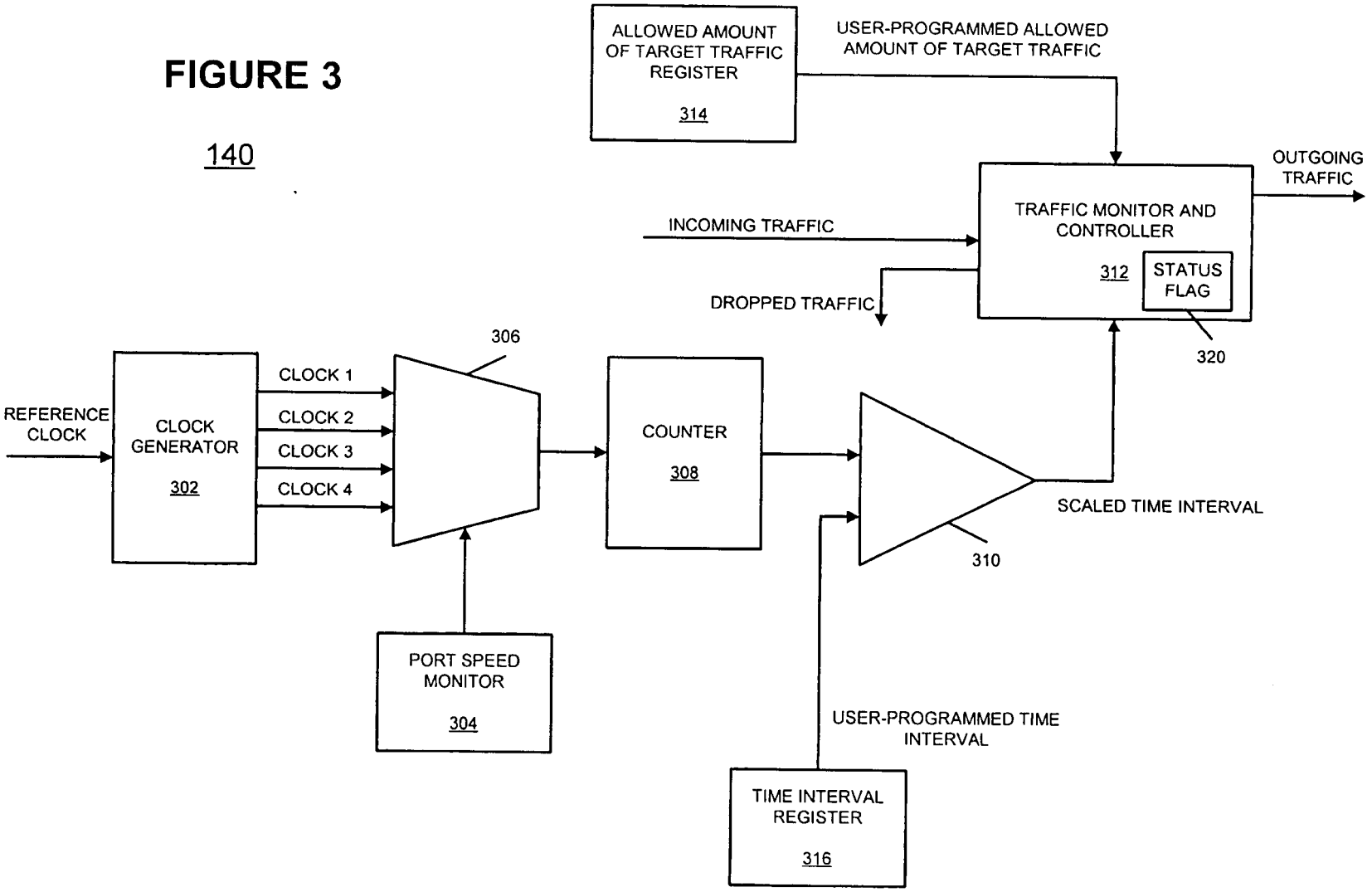

USER DETERMINES PERCENTAGE OF STORM/TARGET TRAFFIC ALLOWED THROUGH PORT BASED ON AN INITIAL PORT SPEED AND PROGRAMS VALUE REPRESENTING ALLOWED AMOUNT OF TARGET TRAFFIC AND A VALUE REPRESENTING A TIME INTERVAL DURING WHICH TO ACCEPT THE ALLOWED AMOUNT OF TARGET TRAFFIC BASED ON PERCENTAGE
202
ACCEPT INCOMING TARGET TRAFFIC
204
PORT SPEED CHANGE BY FACTOR OF 1/N OR N?
206
NO
YES
AUTOMATICALLY SCALE USER-PROGRAMMED TIME INTERVAL BY FACTOR OR N OR 1/N, RESPECTIVELY
208
AMOUNT OF INCOMING TARGET TRAFFIC ACCEPTED DURING SCALED TIME INTERVAL EQUAL TO THE USER-PROGRAMMED ALLOWED AMOUNT OF TARGET TRAFFIC?
210
NO
YES
DROP INCOMING TARGET TRAFFIC
212
SCALED TIME INTERVAL ELAPSED?
214
YES
NO
200

FIGURE 2

FIGURE 3

140


ALLOWED AMOUNT OF TARGET TRAFFIC REGISTER
314
USER-PROGRAMMED ALLOWED AMOUNT OF TARGET TRAFFIC
OUTGOING TRAFFIC
INCOMING TRAFFIC
TRAFFIC MONITOR AND CONTROLLER
312
STATUS FLAG
DROPPED TRAFFIC
320
306
REFERENCE CLOCK
CLOCK GENERATOR
302
CLOCK 1
CLOCK 2
CLOCK 3
CLOCK 4
COUNTER
308
SCALED TIME INTERVAL
310
PORT SPEED MONITOR
304
USER-PROGRAMMED TIME INTERVAL
TIME INTERVAL REGISTER
316